



## 5310

### Manual Gold Ballbonder

The Gold-Ball-Bonder 5310 can process gold wires from 17,5 to 50  $\mu\text{m}$ , using the bumping mode as well as the stitchbond mode. Due to the motor driven Z-axis you work always with repeatable results. Additionally every parameter can be saved to the internal harddisk.

You always work with repeatable results – also after a lot of years. The handling, supported by a colour display and the input with an shuttle-wheel make the programming of the machine very easy. The operator can create different kinds of loops with the manipulator system. Operators require only a minimum of training, making the 5310 manual ball bonder the ideal choice for prototype, rework and small-scale production.

The 5310 is perfect suited for complex bond- tasks, optimal quality and the most favourable price. This machine is the right choice for such applications.

#### Specifications

Concept	DC-motor driven Z-linear-axis, Single-board-PC, menu-controlled Teach-In, internal hard disk, Operating and menu access via shuttle-wheel with push-button
Wire-types	Au-wire: 17,5...50 $\mu\text{m}$ on 2" spool
Bondhead	Contactless electronic Touchdown-Sensor US-Generator 0...5 W programmable, 60 kHz standard, other frequencies optional Negative Flame-Off Bondforce 15 until 150 cN electrically adjustable Capillaries: 9 – 16mm length Step precession: 1 $\mu\text{m}$
Display	10,4" TFT Color-Display, 640x480 Pixel (VGA)
Working area	Bondhead linear Z travel: 60 mm; Standard workheight: 55mm Manipulator in X and Y: 18 x 18 mm Respond reduction: 1:7
Substrate-holder	Digitally controlled heated stage, Standard $\varnothing$ 60 mm for tools up to 2 x 2", mechanical clamping 4 x 4", 80 mm and 95 mm $\varnothing$ optional, also with vacuum (Attention: 4x4" up to 200°C; 80mm up to 250°C)

Control-modes:	Manual, semi-automatic Programline-Step for testing via Shuttle-wheel
Loop-types:	Ball-Wedge, Bumping, Reverse, Stitch programmable
Dimensions	Height: 400mm, width: 630mm, depth: 580mm, weight approx. 30kg
Programme Memory	
Connections:	100...230 VAC, single-phase; pot. Air-pressure / vacuum $\varnothing$ 6 mm

## Substrathalter



Part No.: 5-0427-150-0  
Workholder d=80mm  
heated with vacuum  
+Adapter

Option  
4-0402-210-0  
heated  
4x4", mechanical clamping and vacuum

